

Fig.1

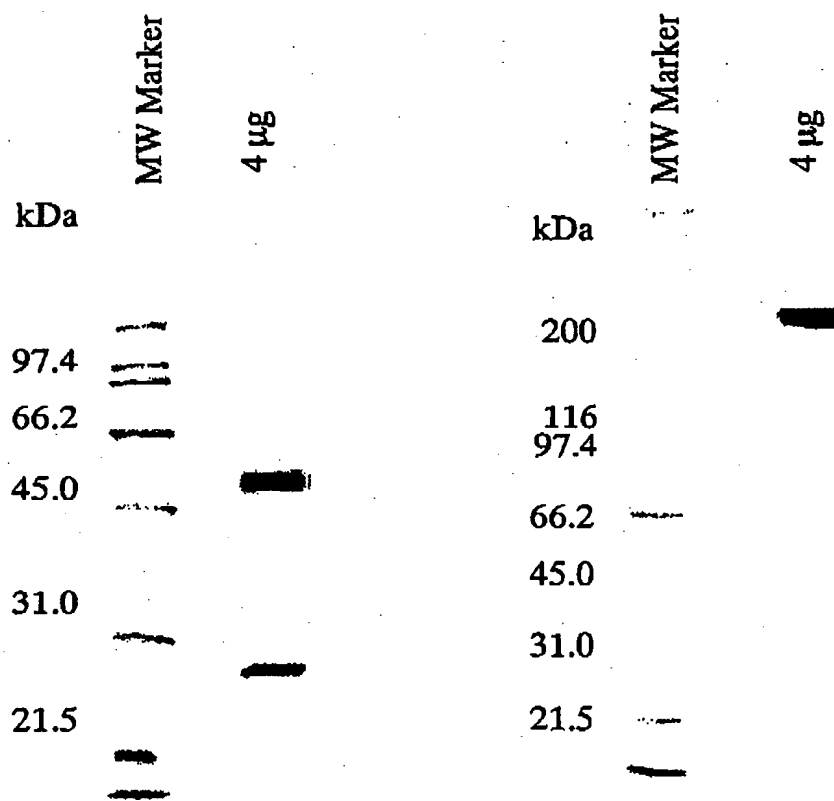


Fig.2

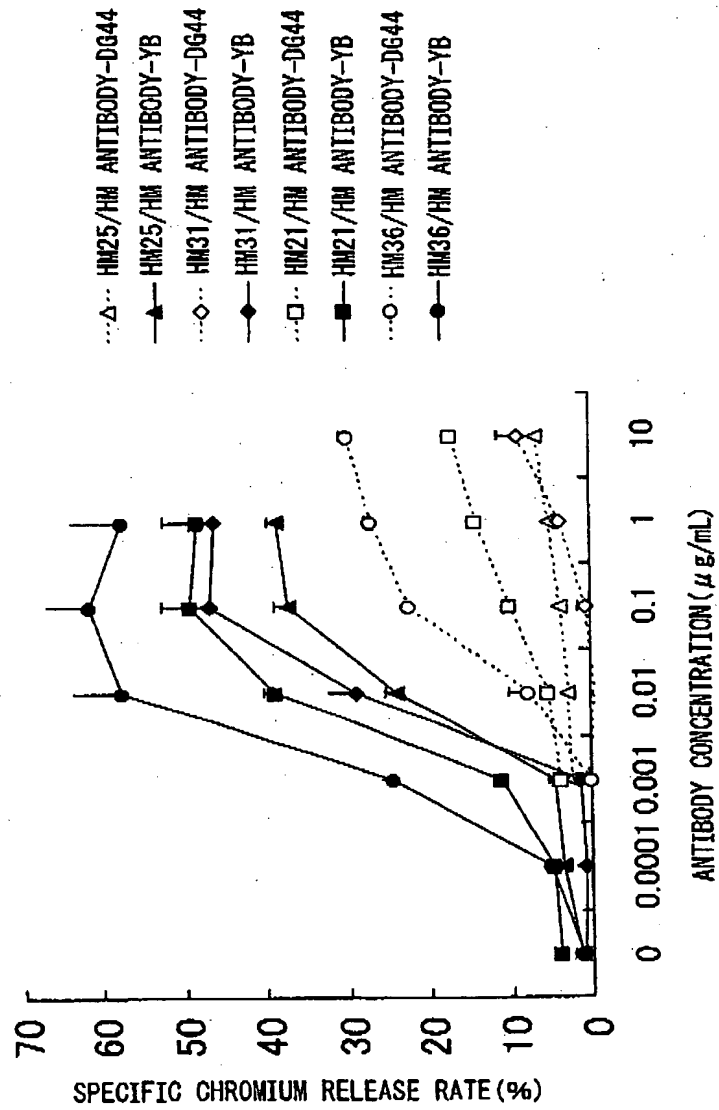


Fig.3

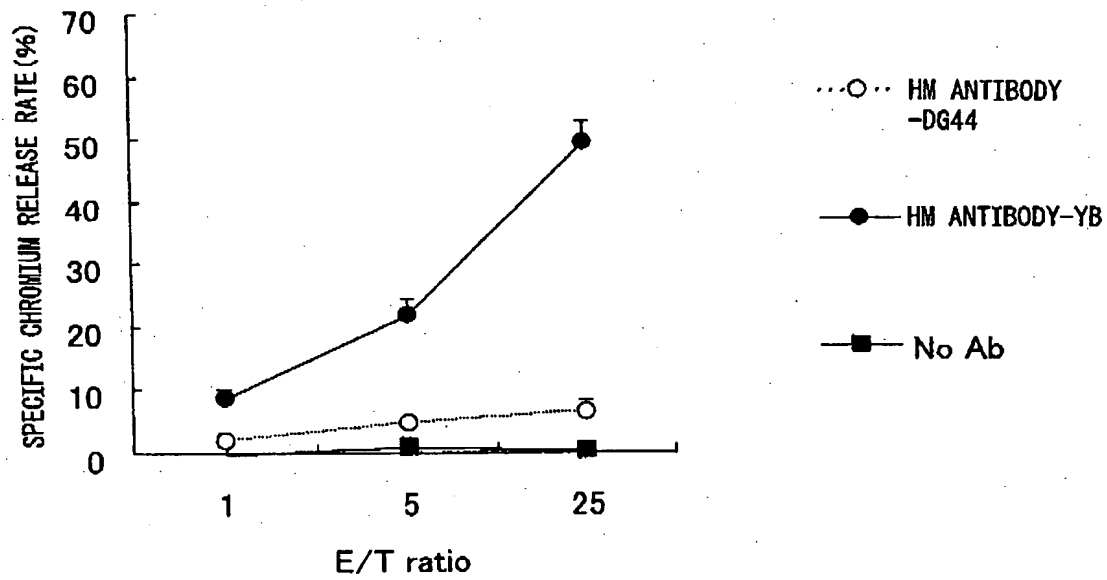


Fig.4

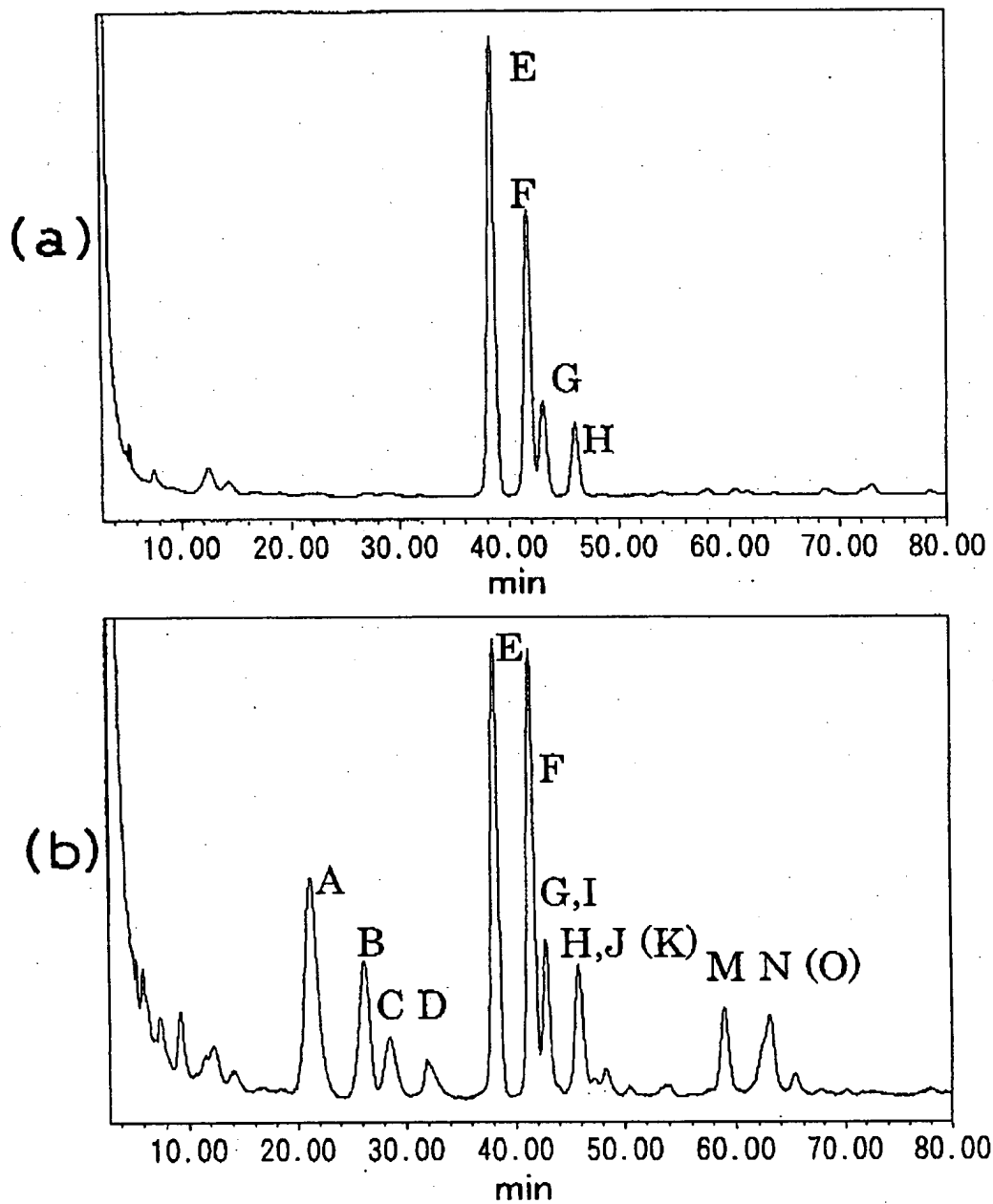


Fig.5

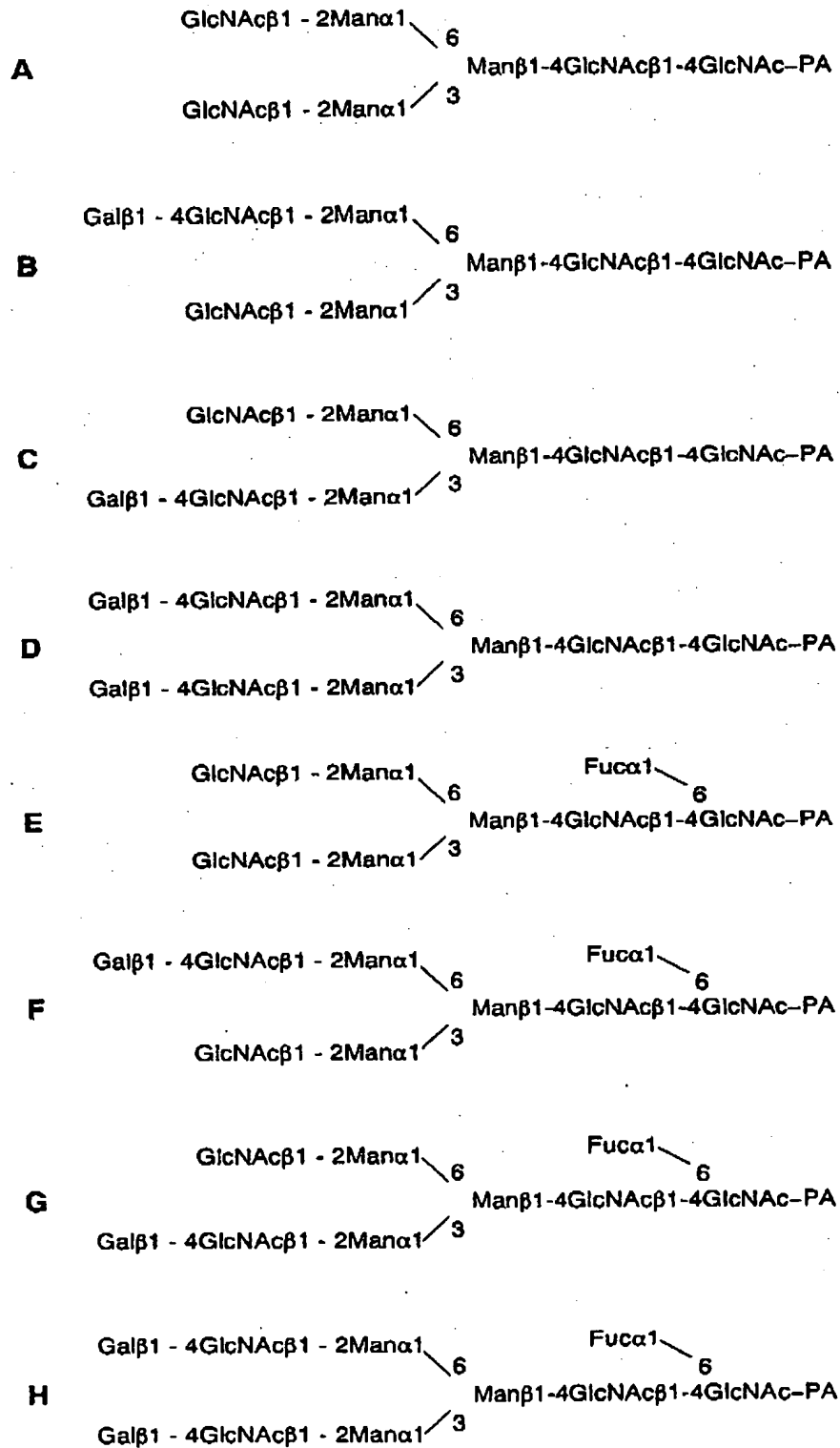
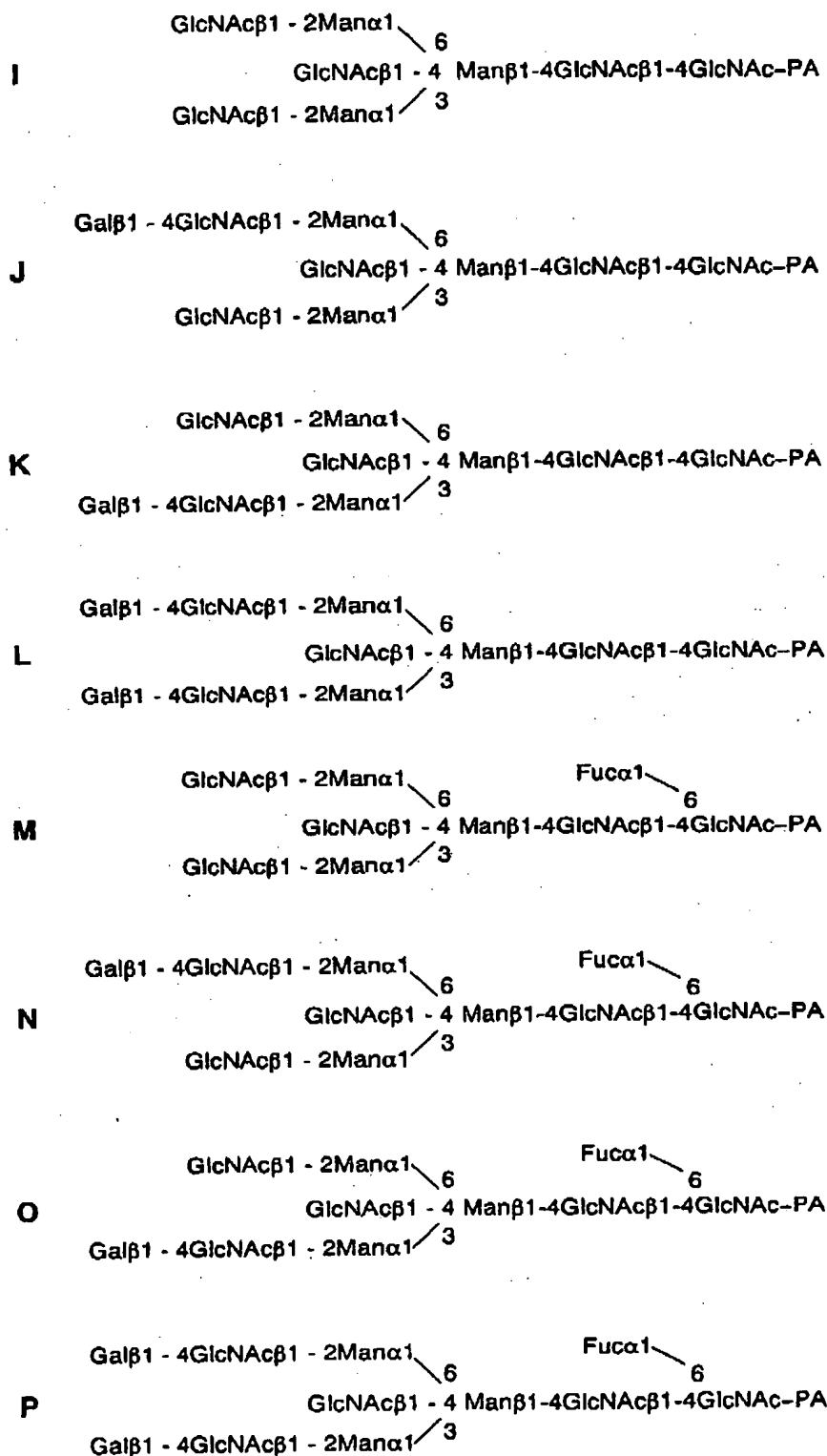


Fig.6



# huGnTIII

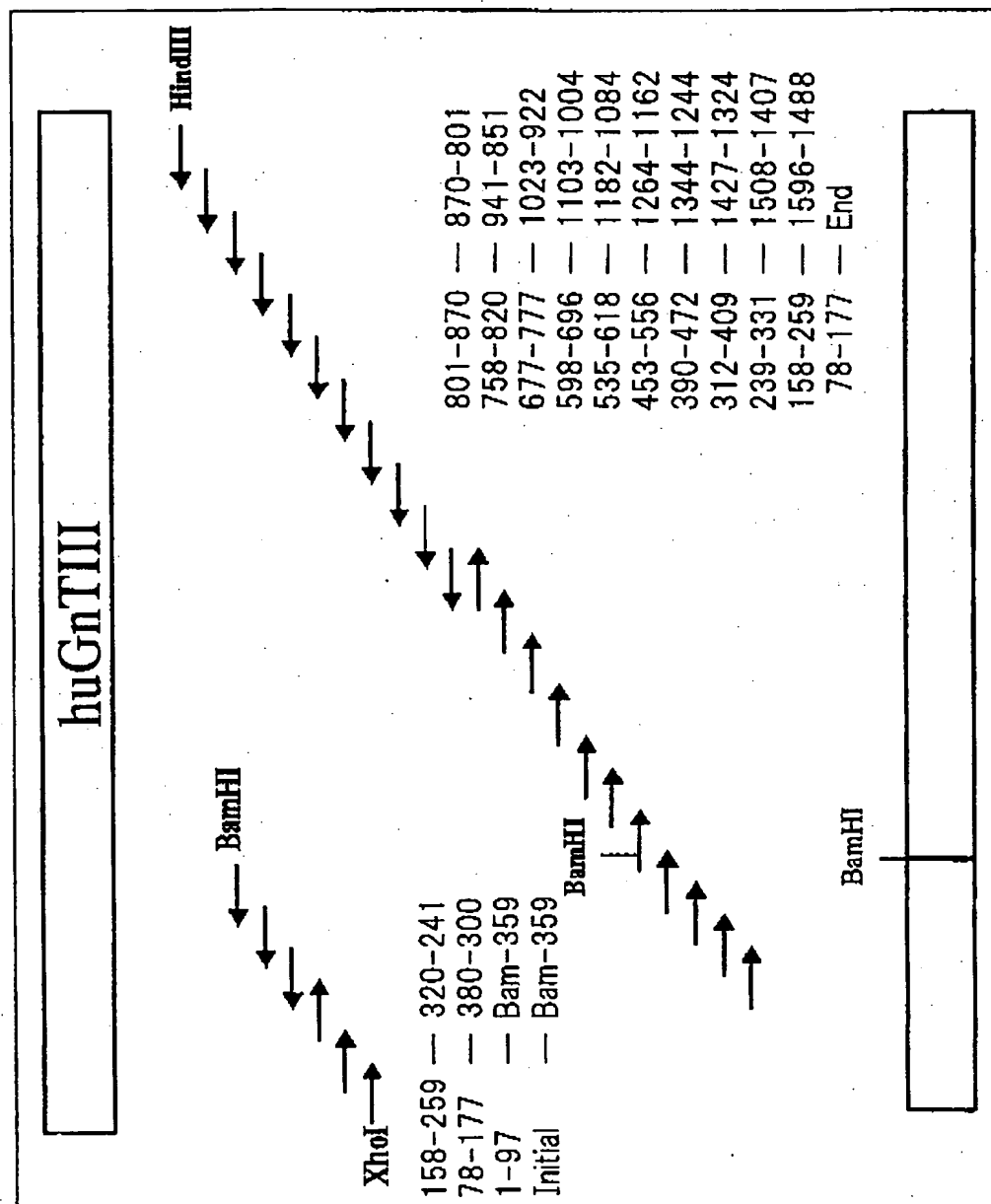


Fig.8

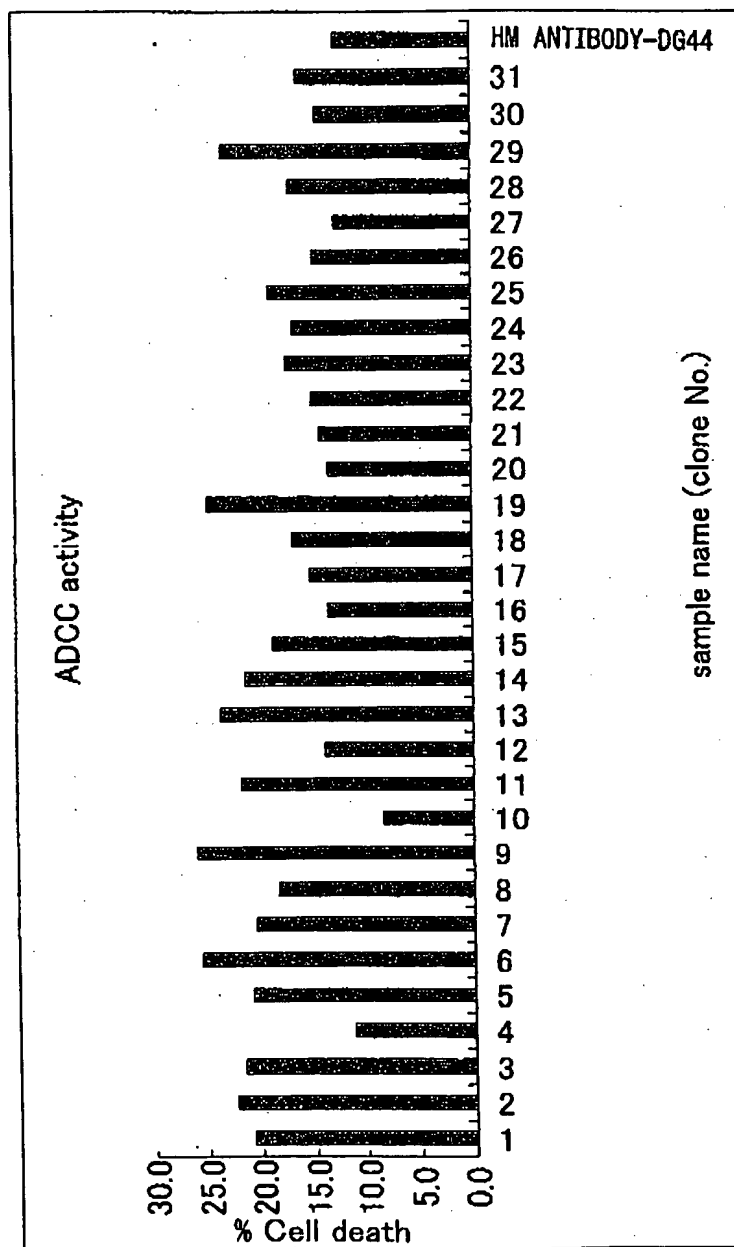




Fig.9

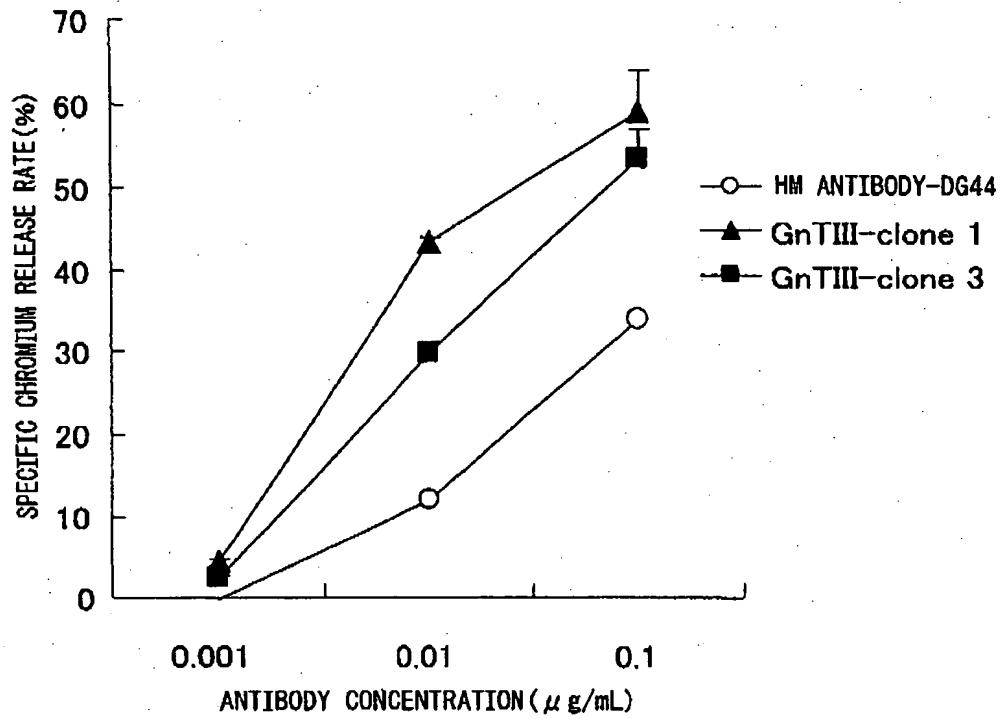


Fig.10

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GnTIII mut.nuc      1:ATGAGACGCTACAAGCTCTTTCTCATGTTCTGTATGGCCGGCCTGTGCCTCATCTCCTTC 60
GnTIII ori.nuc      1:ATGAGACGCTACAAGCTCTTTCTCATGTTCTGTATGGCCGGCCTGTGCCTCATCTCCTTC 60
*****
GnTIII mt.nuc       61:CTGCACCTTCTCAAGACCCCTGTCTATGTACCTTCCACGAGAACTGGCCTCCCTCAGC 120
GnTIII ori.nuc       61:CTGCACCTTCTCAAGACCCCTGTCTATGTACCTTCCCCCGAGAACTGGCCTCCCTCAGC 120
*****
GnTIII mt.nuc      121:CCTAACCTGGTGTCAGCTTTTCTGGAACAATGCCCGGTACGCCCCAGGCCAGCCCT 180
GnTIII ori.nuc      121:CCTAACCTGGTGTCAGCTTTTCTGGAACAATGCCCGGTACGCCCCAGGCCAGCCCC 180
*****
GnTIII mt.nuc      181:GAGCCAGGAGGCCCTGACCTGTGCGTACCCACACTCTCCACTCGCCCCCTGCTGCAG 240
GnTIII ori.nuc      181:GAGCCAGGAGGCCCTGACCTGTGCGTACCCCACTCTACTCCCACTGCCCCCTGCTGCAG 240
*****
GnTIII mt.nuc      241:CCGCTGCCGCCCCAGCAAGGCGGCCGAGGAGCTCCACCGGGTGGACTTGGTGTGCCCGAG 300
GnTIII ori.nuc      241:CCGCTGCCGCCCCAGCAAGGCGGCCGAGGAGCTCCACCGGGTGGACTTGGTGTGCCCGAG 300
*****
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Fig.11

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GnTIII mt.nuc 301:GACACCACCGAGTATTTCGTGCGCACCAAGGCTGGAGGCTGCTTCAAACCCGGCACC 360
GnTIII ori.nuc 301:GACACCACCGAGTATTTCGTGCGCACCAAGGCTGGAGGCTGCTTCAAACCCGGCACC 360
*****
GnTIII mt.nuc 361:AAGATGCTGGAGAGACCGCTCCGGGACGACCGGAGGAGAACCTGAGGGGGCCAAACGGA 420
GnTIII ori.nuc 361:AAGATGCTGGAGAGGCGCGCCCGGACGCGCGGAGGAGAGCCTGAGGGGGCCAAACGGC 420
*****
GnTIII mt.nuc 421:TCCTCGGCGCGGACCAACCCCGGTACCTCCTGAGCGCCCGGAGCGCACGCGGGGGCCGA 480
GnTIII ori.nuc 421:TCCTCGGCGCGGCGGCCAACCCCGGTACCTCCTGAGCGCCCGGAGCGCACGCGGGGGCCGA 480
*****
GnTIII mt.nuc 481:GGTGACGACGACGCAAGTGGGTGGAGTGGCTGTCTGCCCCGGATGGCACGGACCCAGCTGC 540
GnTIII ori.nuc 481:GGCGCCCGGCGCAAGTGGGTGGAGTGGCTGTGCTGCCCGGCTGGCACGGACCCAGCTGC 540
*****
GnTIII mt.nuc 541:GGCGTGCCCACTGTGTGCGAGTATTCCAACCTGCGCTACCAAGGAGCGGCTGGTGCCCAAG 600
GnTIII ori.nuc 541:GGCGTGCCCACTGTGTGCGAGTATTCCAACCTGCGCTACCAAGGAGCGGCTGGTGCCCAAG 600
*****
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Fig.12

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GnTIII mt.nuc  601:GAGGTGCCGCGCGGTCATTATGCTATCAACGTCAACACGAGTTCGACCTGCTGGAC 660
GnTIII ori.nuc  601:GAGGTGCCGCGCGGTCATTCAACGCCATCAACGTCAACACGAGTTCGACCTGCTGGAC 660
*****
***** ** ** *****
*****

GnTIII mt.nuc  661:GTGCGCTTCCACGAGCTGGGCGACGTGGTGACGCCCTTGTGGTGTGGGAGTCCAACTTC 720
GnTIII ori.nuc  661:GTGCGCTTCCACGAGCTGGGCGACGTGGTGACGCCCTTGTGGTGTGGGAGTCCAACTTC 720
*****
*****

GnTIII mt.nuc  721:ACGGCTTATGGGAGCCGCGCGCTCAAGTTCGGGAGATGCTGACCAATGGCACCTTC 780
GnTIII ori.nuc  721:ACGGCTTATGGGAGCCGCGCGCTCAAGTTCGGGAGATGCTGACCAATGGCACCTTC 780
*****
*****

GnTIII mt.nuc  781:GAGTACATCCGCCACAAGGTGCTCTATGCTTCTCTGGACCACTTCTCTCTGGAGGACGA 840
GnTIII ori.nuc  781:GAGTACATCCGCCACAAGGTGCTCTATGCTTCTCTGGACCACTTCTCTCTGGAGGACGA 840
*****
***** ** ** **

GnTIII mt.nuc  841:CAAGATGGATGGATCGCCGACGACTACCTGCGCACCTTCTCACCCAGGACGGCGTCTCG 900
GnTIII ori.nuc  841:CAGGACGGCTGGATCGCCGACGACTACCTGCGCACCTTCTCACCCAGGACGGCGTCTCG 900
*****
***** ** ** **

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Fig.13

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GnTIII mt.nuc  901:CGGCTGCGCAACCTGGGCGCCGACGAGTCTTCATCATGACGATCGGACGAGATCCCG 960
GnTIII ori.nuc 901:CGGCTGCGCAACCTGGGCGCCGACGAGTCTTCATCATGACGATGCGGACGAGATCCCG 960
*****
GnTIII mt.nuc  961:GCCCCGTGACGGCGTCCTGTTCCTCAAGCTCTACGATGGCTGGACCGAGCCCTTCGCCCTTC 1020
GnTIII ori.nuc 961:GCCCCGTGACGGCGTCCTTTCTCAACCTCTACGATGGCTGGACCGAGCCCTTCGCCCTTC 1020
*****
GnTIII mt.nuc 1021:CACATGCGCACGTCGCTCTACGGATTCTTTTGAAGCAACCGGGCACCCCTGGAGGTGGTG 1080
GnTIII ori.nuc 1021:CACATGCGCACGTCGCTCTACGGCTTCTTCTGAAGCAGCCGGGCACCCCTGGAGGTGGTG 1080
*****
GnTIII mt.nuc 1081:TCAGGCTGCACGGTGGACATGCTGCAGGCAGTGTATGGGCTGGACGGCATCCGCCCTGCCG 1140
GnTIII ori.nuc 1081:TCAGGCTGCACGGTGGACATGCTGCAGGCAGTGTATGGGCTGGACGGCATCCGCCCTGCCG 1140
*****
GnTIII mt.nuc 1141:CGCCGCCAATACTACACCATGCCCACTTCAGACAGTATGAGAACCGCACCGGACACATC 1200
GnTIII ori.nuc 1141:CGCCGCCAAGTACTACACCATGCCCACTTCAGACAGTATGAGAACCGCACCGGCCACATC 1200
*****
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Fig.14

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GnTIII mt.nuc 1201:CTGGTGCAGTGGTCGCTGGGCAGCCCCCTTCACTTCGCCGGCTGGCACTGCTCCTGGTGC 1260
GnTIII ori.nuc 1201:CTGGTGCAGTGGTCGCTGGGCAGCCCCCTGCACTTCGCCGGCTGGCACTGCTCCTGGTGC 1260
*****
GnTIII mt.nuc 1261:TTCACGCCCCGAGGGCATCTACTTCAAGCTCGTGTCCGCCAGAAATGGCGACTTCCCACGC 1320
GnTIII ori.nuc 1261:TTCACGCCCCGAGGGCATCTACTTCAAGCTCGTGTCCGCCAGAAATGGCGACTTCCCACGC 1320
*****
GnTIII mt.nuc 1321:TGGGGTGACTACGAGGACAAGCGGGACCTGAACCTACATCCGCGGCTGATCCGCACCGGG 1380
GnTIII ori.nuc 1321:TGGGGTGACTACGAGGACAAGCGGGACCTGAACCTACATCCGCGGCTGATCCGCACCGGG 1380
*****
GnTIII mt.nuc 1381:GGCTGGTTCGACGGCACGCAGCAAGAGTACCCGCCCTGCAGACCCAGCGAGCACATGTAT 1440
GnTIII ori.nuc 1381:GGCTGGTTCGACGGCACGCAGGAGTACCCGCCCTGCAGACCCAGCGAGCACATGTAT 1440
*****
GnTIII mt.nuc 1441:GCGCCCCAAGTACCTGCTGAAGAACTACGACCGGTTCCACTACCTTCTGGACAACCCCTAC 1500
GnTIII ori.nuc 1441:GCGCCCCAAGTACCTGCTGAAGAACTACGACCGGTTCCACTACCTGCTGGACAACCCCTAC 1500
*****
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Fig.15

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GnTIII mt.nuc 1501:CAGGAGCCCAGGAGCACGGCTGCGGAGGATGGCGCCACAGGGGTCTGAAGGAAGACCG 1560
GnTIII ori.nuc 1501:CAGGAGCCCAGGAGCACGGCGCGGGTGGCGCCACAGGGGTCCCCGAGGGAAGGCCG 1560
*****
***** ** ***** ** ***** ***
GnTIII mt.nuc 1561:CCTGCTCGGGGAAACTGGACGAGCGCGAAGTCTAG 1596
GnTIII ori.nuc 1561:CCCGCCCGGGGCAAACTGGACGAGCGCGAAGTCTAG 1596
** ** ***** *****
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